

REQUIREMENTS FOR THE PREPARATION OF REMEDIAL ACTION PLANS

The Groundwater Protection Rules, Env-Ws 410.23, as currently written, provide a framework for the preparation of a Remedial Action Plan. However, the rules do not supply detail or guidance in certain areas of Plan preparation. This check list and attached guidance document are intended to furnish additional guidelines to consultants who are preparing RAPs to insure each document meets a minimum level of quality, improves consistency between reports, and decreases the time required for review by DES .

The remedial action plan is generally an engineering document requiring the preliminary design of recovery and treatment facilities. The plan shall be prepared and stamped by a professional engineer licensed under RSA 310-A.

Check yes "Y" if the information is enclosed in the RAP or not applicable "N/A" if the information does not apply. The Remedial Action Plan shall include the following:

- | <i>Y</i> | <i>N/A</i> | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | | (A) <i>A narrative summary of the site conceptual model and conclusions and recommendations from the site investigation report</i> |
| | | (B) <i>Detailed scaled drawing(s) showing the following:</i> |
| <input type="checkbox"/> | | <i>1. contamination source or sources</i> |
| <input type="checkbox"/> | | <i>2. the aerial extent of soil and groundwater contamination</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>3. potential receptors</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>4. cross sections</i> |
| <input type="checkbox"/> | | (C) <i>USGS topographic maps</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | (D) <i>Aerial photographs of the site</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | (E) <i>Color photocopies of photographs of the site</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | (F) <i>Alternate water analysis if applicable</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | (G) <i>Identify if water supply distribution piping passes through a source area</i> |
| <input type="checkbox"/> | | (H) <i>Evaluation of remedial alternatives capable of meeting clean-up goals</i> |
| <input type="checkbox"/> | | <i>1. The projected time frame to achieve the cleanup goals</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>2. Waste generated by each alternative</i> |
| <input type="checkbox"/> | | <i>3. Estimated costs of each alternative presented as present worth</i> |

- | | | |
|---|-----|--|
| Y | N/A | |
|---|-----|--|
- ☐ 4. Overall comparison of the effectiveness, implementability, and costs of the Alternatives
- ☐ (I) Specific performance standards for all phases of contamination
- ☐ (J) Narrative summary evaluating alternatives, basis for selection and justification, with supporting rationale, of the proposed corrective action
- ☐ ☐ (K) Preliminary design criteria for the selected alternative
- ☐ ☐ 1. Site plan showing system layout
- ☐ ☐ 2. Process flow diagrams
- ☐ ☐ 3. Site map showing estimated areas of influence of recovery wells
- ☐ ☐ 4. Preliminary specifications for the treatment units
- ☐ ☐ 5. Basic information regarding the requirements for operation and maintenance of the proposed facilities
- ☐ ☐ 6. A list of any alarm and safety features to respond to malfunctions, potential overflows, etc.
- ☐ ☐ 7. A list of features which will protect the system from damage resulting from vandalism or inclement weather
- ☐ ☐ 8. Identification of performance standards to be obtained prior to shutdown of the treatment system
- ☐ ☐ (L) Recommendations for conducting any pilot tests before proceeding with final design and construction
- ☐ (M) A compliance schedule, including interim compliance dates, for achieving performance standards and a projected completion date
- ☐ (N) A description of the content and frequency of progress reports
- ☐ (O) A list of all federal, state, and local regulations and statutes which apply
- ☐ (P) A list of permits which will be required
- ☐ (Q) Groundwater management zone delineated on a tax map
- ☐ (R) A site specific health and safety plan
- ☐ (S) Significant calculations used in developing the remedial action plan